TORO®

TORO Greensmaster Assures Constant Cutting Height

Only the Greensmaster has a free-floating cutting unit that hugs the ground and eliminates digging or gouging . . . assures a uniform cutting height on all greens.

The Greensmaster's unique design provides a floating action that isolates the cutting unit from the traction and catcher sections of the mower. Engine vibrations are not transmitted to the cutting reel . . . the weight of accumulated clippings do not affect the cutting height . . . variations in handling techniques of different operators will not alter the mower adjustments and performance.

These are but a few of the exclusive features built into the Toro Greensmaster . . . the most revolutionary concept in greensmowers to be introduced in Toro's fifty-one years of outstanding contributions to the mower industry.

The Toro Greensmaster consists of three separate units . . .

1. Free Floating Cutting Unit . . . 21-inch, 9-blade reel with front-mounted skids and rear-mounted full roller.
2. Traction Unit . . . 3 H.P., transaxle, soft-rubber covered traction drums, adjustable handle.
3. Catcher Support Unit . . . rigid frame, integral with Traction Unit, supports large capacity grass catcher.

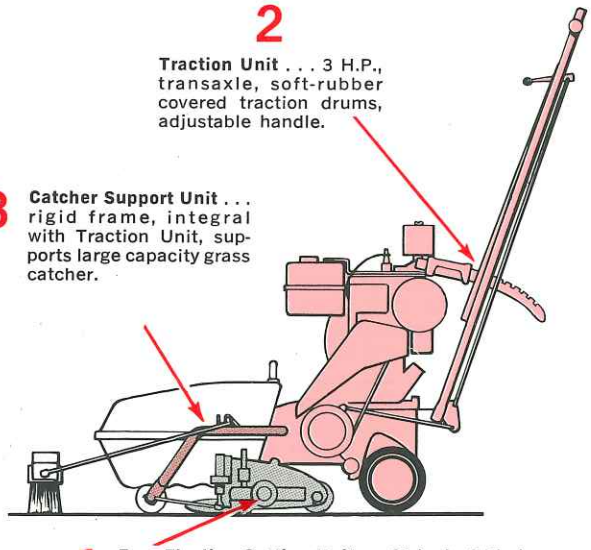
The Greensmaster's Free Floating Cutting Unit enables the cutting reel to conform to all ground contours and undulations. The cutting unit is flexibly coupled to the Traction Unit which supplies the driving power and directional control through universal ball joints. The cutting unit of the Greensmaster thus is effectively isolated from the rest of the machine and its operation is not affected by . . .

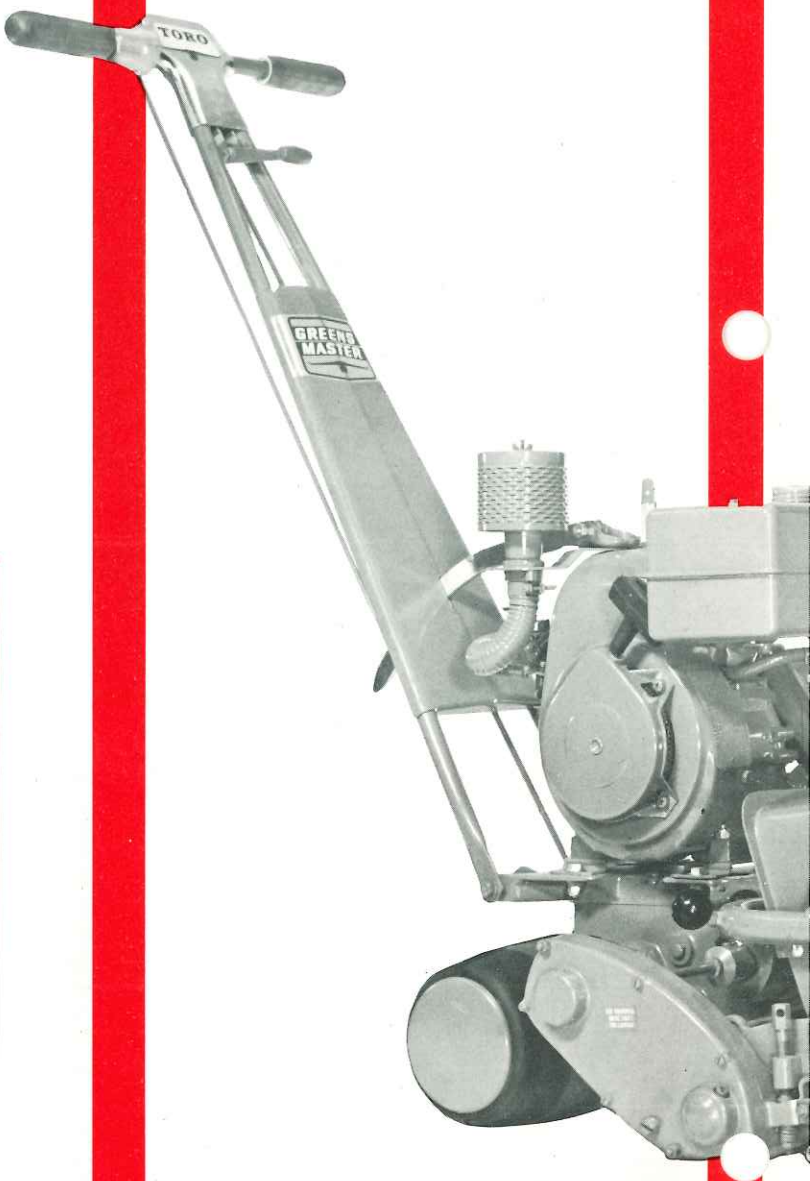
- The gross weight of the Greensmaster and the grass clippings in the catcher.
- Engine and transmission vibrations.
- Operating techniques such as pressing down on or lifting the handle.

The only factor that determines the downward pressure of the cutting unit is its weight . . . approximately 44 pounds. This uniform pressure allows the unit to "free float," closely following the true contour of the ground and clipping the grass at a uniform height. In conjunction with the short 7-inch wheelbase of the unit and the low center of gravity (2.5 inch), the possibility of scalping is all but eliminated, and proper weight distribution and superior performance is assured on all greens regardless of contour, undulations and terraces.

Additional design features that make the Toro Greensmaster the answer to better, more efficient greens maintenance . . .

- The relative lightweight, 147 pounds, of the overall machine contributes substantially to the ease of handling, minimizes turf compaction.
- The blade cutting reel rotates on self-aligning bearings and is dynamically balanced to reduce vibration, provide a long service life.
- The complete cutting unit can be removed and replaced in less than a minute.



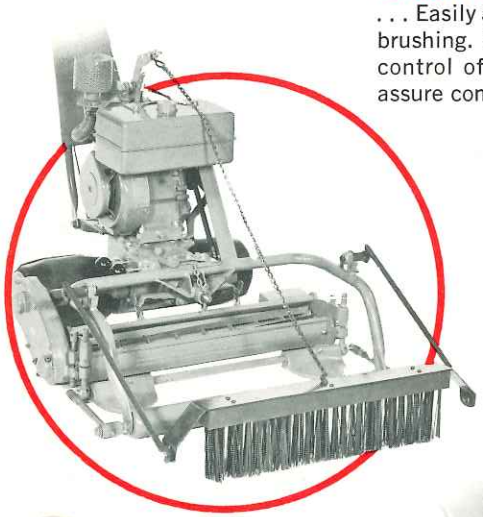


Customizing the Greensmaster...

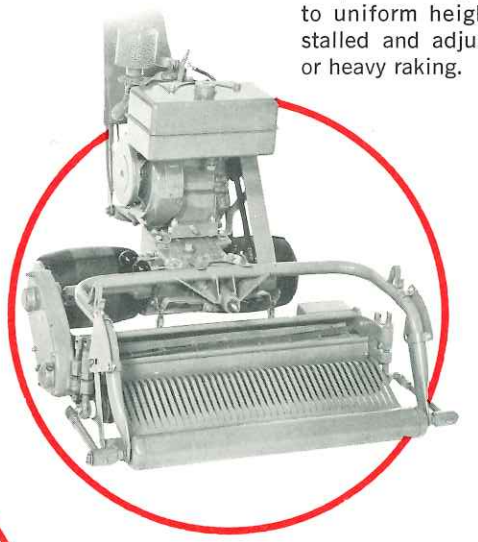
Greens maintenance requirements vary substantially in different areas . . . a factor which was of prime importance in the design of the NEW Toro Greensmaster. So important, in fact, that the ability to "customize" the mower to meet all grass growing conditions and cope with regional problems was awarded A-1 priority in the initial development stages of the machine.

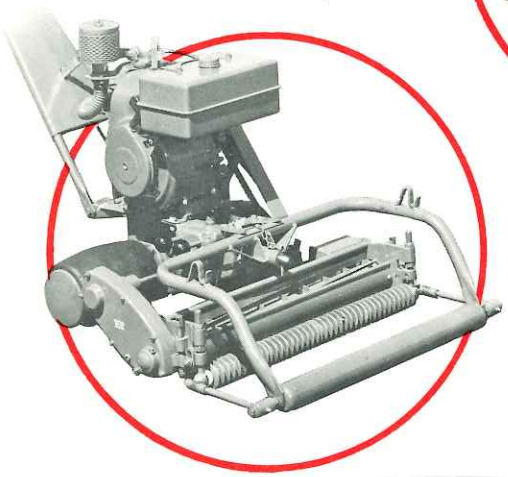
The success of the program has proven outstanding. No matter how complex your greens mowing requirements, the Greensmaster can be tailored to fit your specific needs.

BRUSH ATTACHMENT
. . . Easily adjustable for light or heavy brushing. Eliminates grain, assists in control of thatch, lifts stringers to assure complete mowing job.

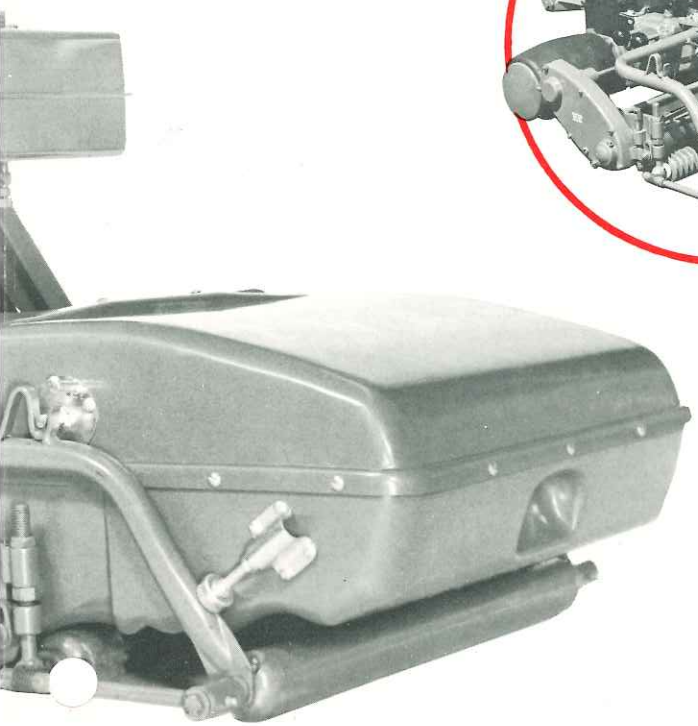


DELMONTE COMB
. . . Assists in the control of thatch, eliminates grain condition, lifts stringers for cutting to uniform height. Easily installed and adjusted for light or heavy raking.

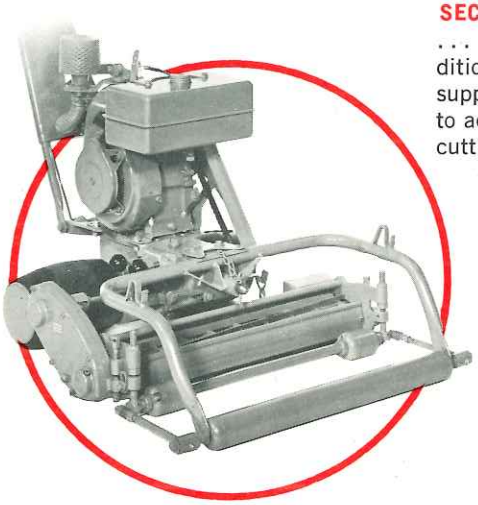




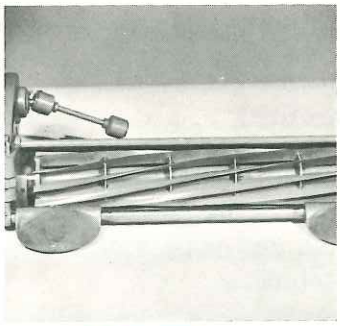
WIEHLE ROLLER
. . . Designed to replace skids where deeper penetration of the more vigorous grasses is required. Most frequently used in combination with Delmonte Comb.



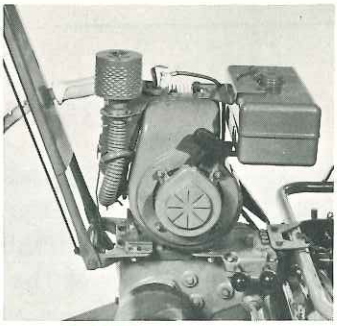
SECTIONAL ROLLERS
. . . Used for special mowing conditions. Replace skids which are supplied as standard equipment to accommodate widest range of cutting requirements.



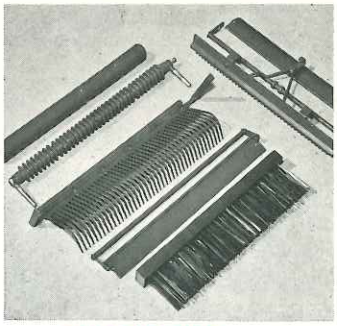
ADVANCED DESIGN: Supporting fork on traction unit takes weight of catcher. Cutting unit independent.



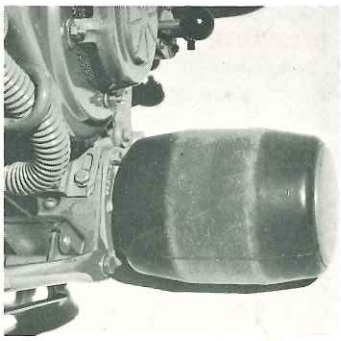
CUTTING UNIT: Connects to gear drive through universal. Chain and sprocket drive reel.



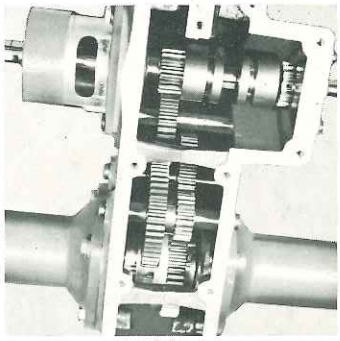
ENGINE: Powerful 3 H.P. 4 cycle, with large dry-type air cleaner, recoil starter and one gallon gas tank.



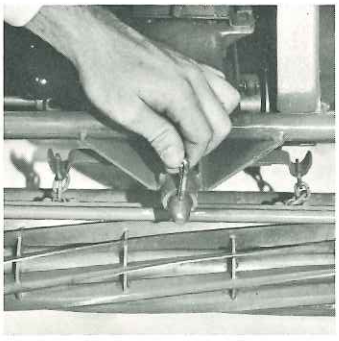
CUSTOM BUILT for various mowing requirements through the use of a wide variety of optional accessories.



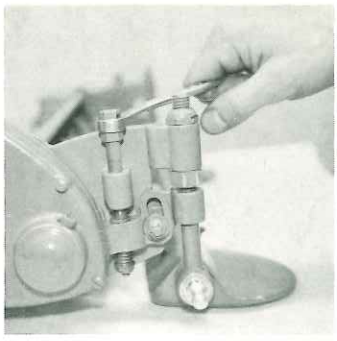
TRACTION DRUMS: Rubber traction drums travel over paths, roadways. Transport wheels unnecessary.



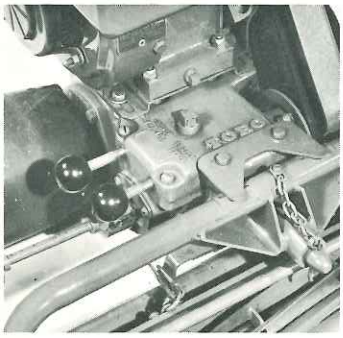
GEAR BOX: Cast aluminum housing with spur-gear type transmission – precision engineered.



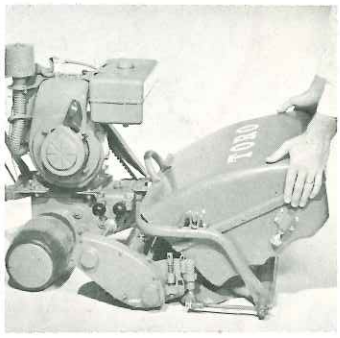
SUPPORTING FORK: One pin connects fork and traction unit. Easy to remove fork for catcher.



BED KNIFE ADJUSTMENT: Bed knife is rigidly mounted for proper cutting angle. Reel adjusts down to bed knife to compensate for wear.

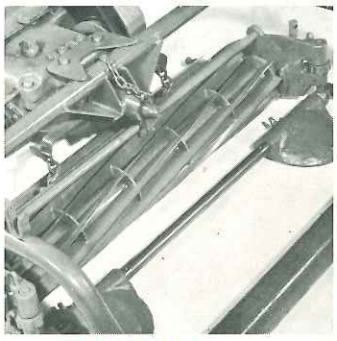


GEAR KNOBS: Operate directly on transmission to engage or disengage traction or reel for transport.



GRASS CATCHER: Easily removed from supporting fork. Component units easily interchanged.

TRANSPORT POSITION: Disengage reel and set handle at a comfortable height. No transport wheels necessary.



9-BLADE REEL: 9 blade reel has 3½" diameter. Height of cut range from ⅛" to 1⅛".

SPECIFICATIONS

ENGINE: 3.0 H.P. four-cycle, with large dry-type air cleaner, recoil starter and one gallon gas tank. Stellite valves and valve seats.

ENGINE CLUTCH: Multiple friction disc – operated from upper handle.

REEL CLUTCH: Engaging jaw type – hand operated at traction unit.

TRACTION CLUTCH: Engaging jaw type – hand operated at traction unit.

REEL DRIVE: "A" section V-belt on 2.0 P.D. and 3.70 P.D. to countershaft (1.85:1) ⅜" pitch x ¾" wide chain on 16T and 14T sprockets from countershaft. Reduction to Reel – 1.62:1.

REEL: 3½" diameter 9 blade alloy steel on self aligning bearings.

BED KNIFE & BAR: Single edge spring steel knife, extra hard for long life, screwed to extruded aluminum one piece bedbar and back plate.

TRACTION DRIVE: "A" section V-belt on 2.0 P.D. and 3.70 P.D. to countershaft (1.85). From countershaft 18T and 48T gear (2.67:1) and 20T and 56T gear (2.8:1). All gears 16 pitch, 20-degree involute full depth, ½" wide. Gears running in oil.

REDUCTION: ENGINE TO TRACTION DRUM: – 13.86:1.

TRACTION DRUM: 6" diameter solid rubber on 16 gauge steel rims. Two sections running on ball bearings.

Specifications and Trim Subject to Change Without Notice

DIFFERENTIAL: Enclosed spur gears.

GROUND SPEED: 4.6 MPH maximum.

HEIGHT OF CUT: ⅛" to 1⅛".

WIDTH OF CUT: 21 inches.

CLIP: .245.

TRACTION UNIT: Cast aluminum housing.

HANDLE: One piece ¾" O.D. No. 16 gauge wall, welded steel tubing.

REEL UNIT: Cast aluminum and zinc side plates; aluminum extrusion back plate. Reel unit independent of traction unit and catcher.

SKIDS: Cast aluminum with 10 11/16 square inches ground contact, pivoted on oil impregnated bronze bushings.

ROLLERS: 2" O.D. steel tube with replaceable bushings running on ⅝" diameter shaft and equipped with dirt and moisture-excluding oil seals.

DIMENSIONS: Width: 27"; Length: 60" including handle and catcher. Height: 44¾" with handle.

WEIGHT: 147 pounds with catcher.

OPTIONAL EQUIPMENT: Del Monte Comb, Rigid Comb, Full Front Roller, Wiehle Roller, Brush.

TORO®

THE BEST POWER MOWER YOU CAN BUY

TORO 51 YEARS

TORO MANUFACTURING CORP.
MINNEAPOLIS 20, MINNESOTA

Form No. 490-1027